

ABSTRACT

[0070] A pulse generating apparatus has two like output channels that apply
5 generated pulse signals of selected characteristics to two electrodes attached to
a strap, each electrode receiving a different signal. The strap is attached to the
foot so that the electrodes are positioned to stimulate with an electrical signal the
abductor hallucis muscle of the foot to correct an imbalance due to overpowering
by the adductor hallucis muscle in the large toe. The signal strengthens the
10 abductor hallucis muscle so that eventually it regains strength sufficient to
counter balance the imbalance effect of the stronger adductor hallucis muscle
and alleviate the bunion condition in the large toe. The electrical signal
generator generates signals that are pulses that are adjustable in frequency,
modulation, pulse width and amplitude with modified square waves. In a second
15 embodiment, the abductor digiti minimi brevis muscle is overpowered by the
flexor digitorum (3rd plantar interosseus), in respect of the small toe causing
Tailors Bunion. In this case, the two electrodes are attached via a strap to the
foot so that the electrodes are positioned to stimulate with an electrical signal the
abductor digiti minimi brevis muscle to strengthen this muscle and correct the
20 bunion condition for the small toe.